1/20

Parasite donor age (years)

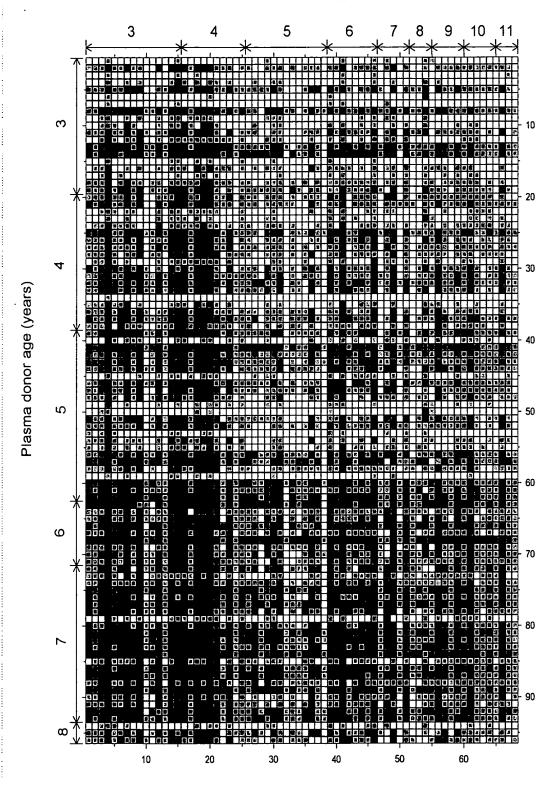


Fig. 1

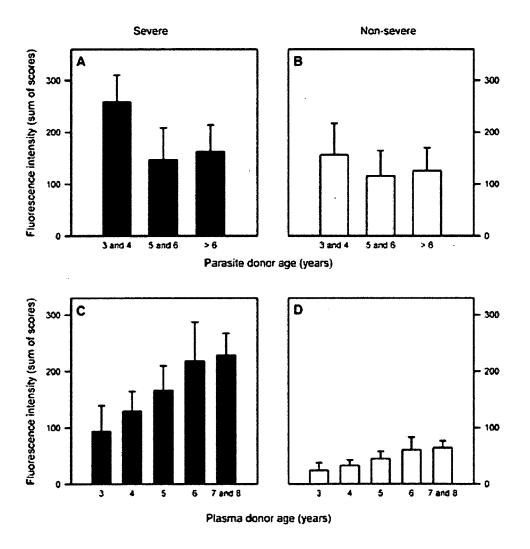


Fig. 2

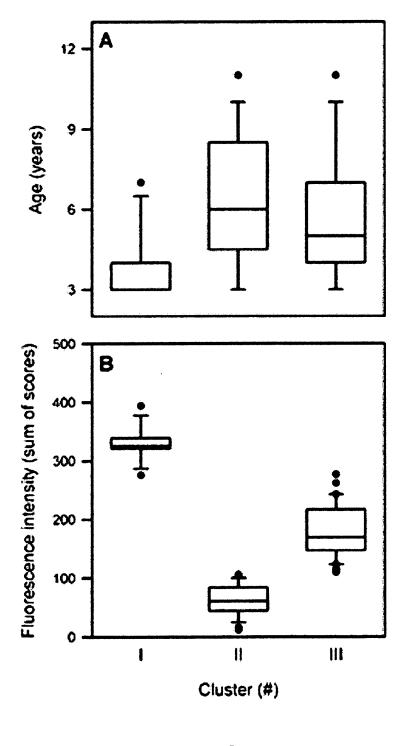


Fig. 3

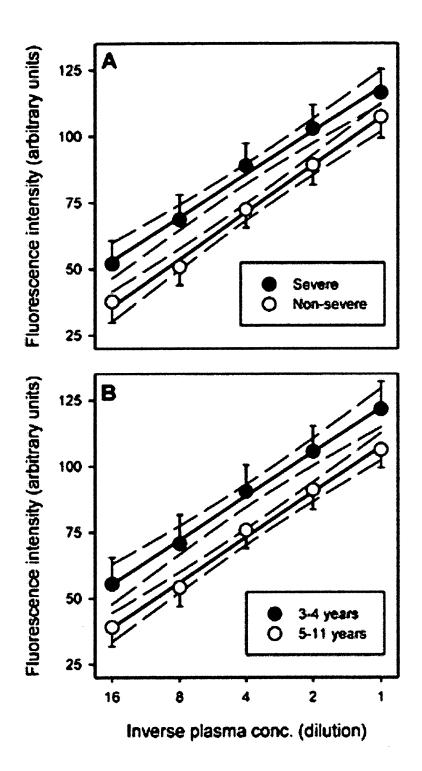


Fig. 4

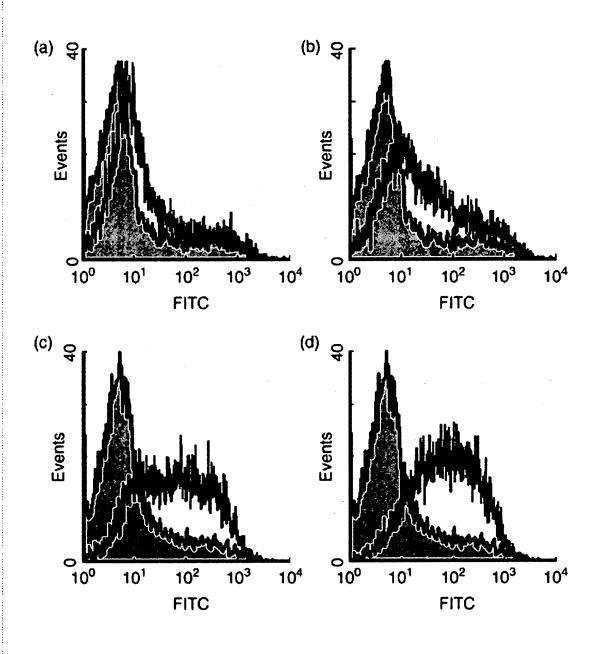


Fig. 5

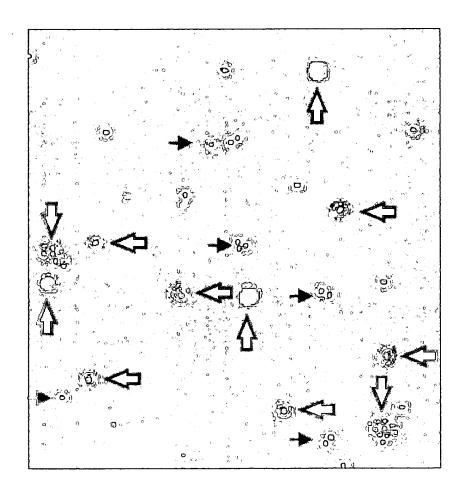


Fig. 6 BEST AVAILABLE COPY

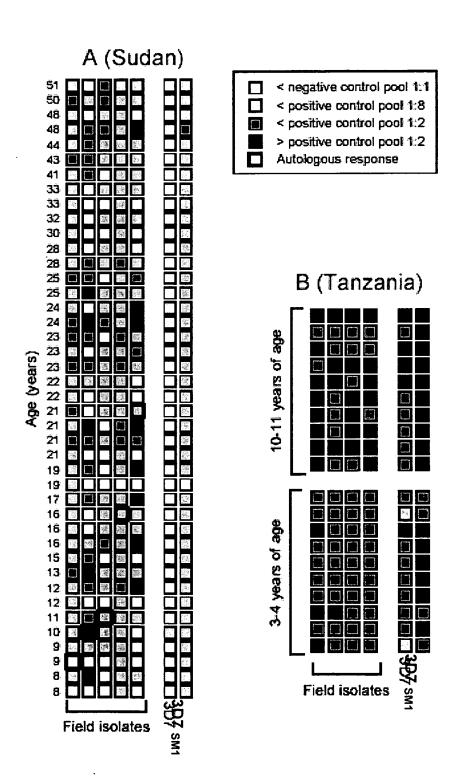


Fig. 7

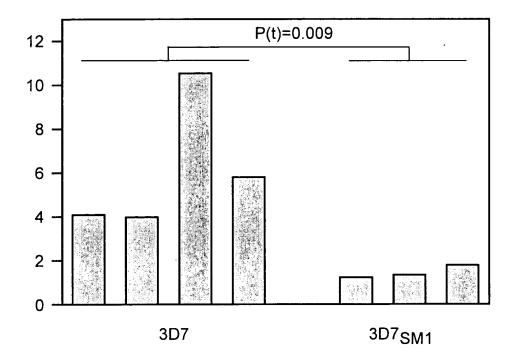
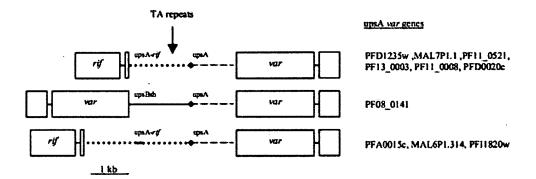
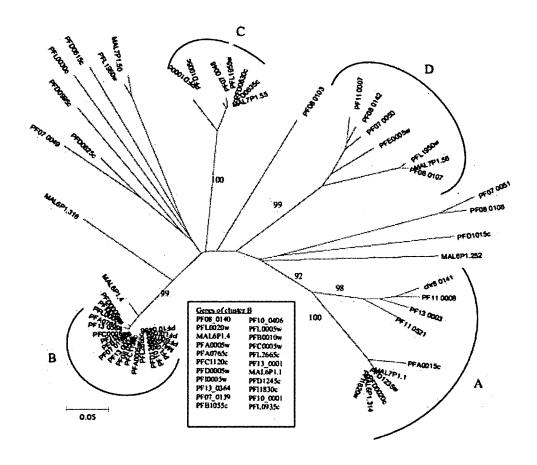
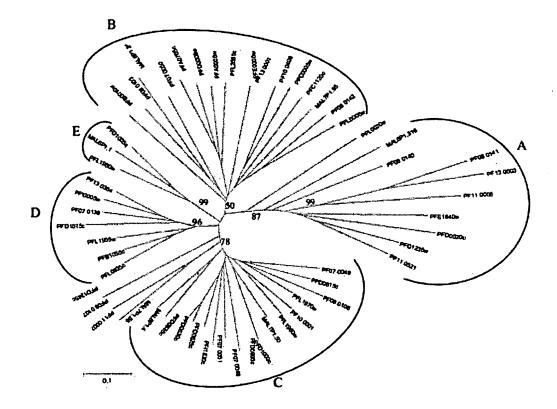


Fig. 8

			Onentation																\neg	
	A Gene	Location	(transcribed towards)	5' region	DBL1- CIDR1	intron	ATS	3' region		Domain structure										
	PFE1640w**	Telomeric	Telomere	upsD	A	None	None	None	061,1-0	CUDR 1-P	0842#	CZ	OSL3-7	081.44	DBL 5-7	DBL6-8	DBL7-4		\neg	var1
	PFL0030c	Near telomere	Telomere	upsE	None	A	٥	×		O81.2-a		D8L4-*	OBL5-1		ATS					var2
	PF01236	Near telomere	Telomere	upaA**	X	- A	×	×		CIDR1-P		æ	08134 08034	C	08147	18615.0° 18615.0°	COR-P	ATS	· · · [=	•
	MAL7P1.1 PF11_0521	Telomeric Telomeric	Telomere Telomere	upsA upsA	A	A) Al	A .	Â		CIDR1-		C2 C2	0813-8	CZ	DEL4A	CIDR-7	ATS	ATS	-	
	PF13_0003	Near telomere	Telomere	upsA	Â	A	Â	Â	DBL1-0	CIOR-7	08L2#	C2	DBL3-7	08144	CIDR-F	D81.5-F	CZ.	ATS		
	PF08_0141	Near telomere	Telomere	upsA	A	x	A	A	D811-0	CIDR-7	06L2-P	C3	0813-7	DBL4-	DBL5-4	ATS				
	PF11_0008	Near telomere	Telomere	upsA	A	x	A	A	06L1-0	CIDR-7	DBL2-7	0873%		DBL4-P	C2	ETA				var group A
	PFD0020c	Near telomere	Telomere	upsA	A	X	A .	^		CIDR1-4 DBL2-4	D6L2-F	æ	DBL3-7	DBL4-7	OBL5-8	CIDR-T	ATS			
	PFA0015c MAL6P1.314	Near telomere Near telomere	Telomere Telomere	upsA upsA	¥.	A11 A11	A	A .	DBL1-4	0812-	ATS ATS									
ı	PFI1820w	Near telomere	Telomere	upsA	Ã-	All	Â	Â		OBL2-4	ATS								١.	J
	PF08_0140	Near (elomere	Centromere.	upsBsh.	···X···	g	å	k	681 12	COOK	1862		tett!	65.1 5	W/	Ars"		••••••	•••	5
	MAL6P1.316	Near telomere	Centromere	ups8sh*	A	x	х	x	DBL1-A	CIDR-F	081.2-5	CZ		DBL4-	DBL5-*	ATS				var group B/A
	PFL0020w	Near telomere	Centromere	ups8sh	X	X	X	В		CIDR#	08L2-5 08L2-5	CZ	DBL3-7	DBL4-5		ETA		D61.7-2 A	_	rui gioop sii i
	MALSP1.4 PF11_0007	Telomeric Felomeric	Centromere	upsB upsB		<u>X</u>	¥	წ			1822	•999⊅, cs	UBLS-1	- e e e e		•••••	*****	UGL/- A	T3	2
	PF08_0142	Telomeric	Centromere	upas upas	B	В	В	9		CIDR1-			ATS							
	PFE0005w	Telomeric	Centromere	upaB	В	В	В	D	DBL1-0	CIDR 1-4	DBL7-5	CIDR#	ATS							
	PFA0005w	Telomeric	Centromere	upsB	В	В	С	В		CIDR1-4		CIDR-5	ATS							
	PFA0765c	Telomeric	Centromere	upsB	В	В	В	В	1	CIDR 1-9			ATS.							
	PFC1120c PFD0005w	Telomeric Telomeric	Centromere	ups8 ups8	B B	B R	B B	B		CIDR1ª		DBL3-s ⁵	ATS CIDR-#	ATS						
	PF10005w	Telomeric	Centromere	цовВ	D	8	В	В	t	CIDR 1-P		CIDR-7	ATS	~13						
	PF13_0364	Telomeric	Centromere	upsB	D	В	В	В	08L14	CIDR 1-4	DBL2.A	CIDR-P	ATS							
	PF07_0139	Telomeric	Centromere	upsB	D	x	В	В	08L1-0		DBL2-8		DBL3-1	ATS						
	PF81055c	Telomeric	Centromere	upsB	D	X	В	B		CIDR 1-0		CIDR.P	ATS.							
	PF10_0406 PFL0005w	Telomeric Telomeric	Centromere	upsΒ upsΒ	8 B	X X	B B	B		CIDR1-P		CIDR-P	ATS ATS							<i>var g</i> roup B
	PFB0010w	Telomeric	Centromere	ups8	В	x	В	В		CIDRIC		ATS	-113							
	PFC0005w	Telomeric	Centromere	upaB	В	x	В	В	08L1-0	CIDR 1-4	DBL2.A	CIDR#	ATS							
	PFL2665c	Telomeric	Centromere	ups8	В	x	8	В		CIDR 1-4		CIDR-P	ATS							
	PF13_0001	Telomeric	Centromere	upsB	В	X	В	В		CIDR1-4		CIDR-F CIDR-F	ATS							
	MAL6P1.1 PFD1245c	Telomeric Telomeric	Centromere	upsB upsB	E X	B X	B C	8 B		CIDR1-4		CIDR-F	ATS ATS						ı	· ·
	PFI1830c	Telomeric	Centromere	upas	ĉ	x	В	В		CIDR1-F		CIDR-1	ATS							
ı	PF10_0001	Telomeric	Centromere	upsB	c	x	В	В	DBL1-4	CIDR 1-0	DBL2-5	CIDR-Y	ATS							
L	PFL0935c	Centromeric	Telomere	ираВ	D	X	c	В		CIDR1-0			ATS							7
	PFD0635c	Centromeno	Telomere	upsbah				<i>5</i>		CIDR1-0	DBCZ		ETA						•	•
	PFL1966w PF08_0106	Centromeric Centromeric	Telomere Telomere	ups8sh ups8sh	C C	8 B	c	c x		CIDR1-4			ETA							
	MAL7P1.50	Centromeric	Talomere	upsBsh	c	x	c	x	DBL1-P	CIDR 1-4	DBL2-8	CIDR-1	ATS							
	PF08_0103	Centromeric	Telomere	upsBsh	В	x	С	x	DBL1-A	CIDR 1.4	O61.2-8	CIDR.P	ATS							<i>var g</i> roup B/C
	MAL7P1.55	Centromeric	Telomere	upsBsh	В	x	C	С		CIDR 1-a		CIDR-1	ATS							var group bro
	PF07_0050 PF01005c	Centromeric	Telomere	ups8sh	B E	A) B	B B	D C		CIDR 1-4		C2 CIDR-1	DBL3-7 ATS	ATS						
ı	PFL1950w	Centromeric Centromeric	Telomere Telomere	upsBsh upsB^	E	X	8	D		CIDR1-4			DBL3-8	CIDR-F	ATS				١.	
>	MAL6P1.252	Centromeric	Telomere	upsC			g	×	661A	CIDA 1-2	ъв∠≯	æ	bacs.	GD4.	ATS	•••••	•••••	••••••	•••	
	PFD0995c	Centromeric	Telomere	upsC	С	x	D	X		CIDR1-4			ATS							
1	MAL7P1.56	Centromeric	Telomere	upsC	C	x	В	D		CIDR1-0 CIDR1-0		CIDR-F	ATS							
	PF08_0107 PF07_0049	Centromeric Centromeric	Telomere Telomere	upsC upsC	X C	8 8	B C	D X	1	CIDR1-			ATS							
	PF00630c	Centromeric	Telomere	upsC	c	В	c	Ĉ		CIDR 1-4			ATS						-	
	PFD1000c	Centromeric	Telomere	upsC	C	В	В	С		CIDR 1-4		CIDR-7	ATS						- 1	var group C
	PFD1015c	Centromeric	Telomere	upsC	D	8	В	X		CIDRIA			ATS						1	
	PFD0615c	Centromeric	Telomere	upsC upsC	C C	X Al	X D	X X	i	CIDR 1-4		CIDR-F	ATS ATS							
	PF07_0051 PF07_0048	Centromeric Centromeric	Telomere Telomere	upsC	c	×	C	Ĉ	ī	CIDRI-			ATS						-	
	PFL1960w	Centromeric	Telomere	upsC	c	×	c	x		CIDR 1-0			ATS							
•	PFD0625c	Centromeric	Telomere	upsC	С	X	С	х	06L1-0	CIDR 1-4	DBL2.A	CIDR#	ATS						-	
	В	1	3D7 gene with closest	1															-	
			related 5"	١	OBL1-	4.4.			l											
	PrEMP1	Strain	sequence EE1640w	5' region		Intron	ATS	3' region	47		-		KNOWN	domain s	aructure			-	\dashv	
	var1 family var2 family	307 homologue: P 307 homologue: P				ding sequen ding sequen														
	AAA75397		MAL6P1.316		A	nd.	C	0		CIDR 1-4	DBL2-P	CZ	DBL3-7	DBL4-5	CIDR-6	AT8			\neg	
	AAA75396	Dd2	PF07_0050	upsB	c	nd.	8	x			DBL2-#		DBL3-7	DBL4-8	CIDR-F	ATS				
	AAA75398	FCR3	PF07_0139	ups9	E	nd.	В	x			08L2#			CIDR.						
	AAD03351	lt	PFL2665c	upeB	x	nd.	nd.	nd.			0812-8			CIDR-P	DBL4-Y	OBL5-P				
	AF193424	t	PF08_0142	ups8	X	nd.	nd.	nd.		CIDR1-			DBL3-7							
	AAB60251	MC		nd.	8	nd.	В	_		CIDR1ª		CIDR-7 C2	DBL3-P	CRSL4-F	ATS					
	AAC05220 AAC47438	FCR3	PFD0005w PFB1055c	upaB upaB	B X	nd. nd.	nd. B	nd. nd.		CIDRIG				CIDR-P	ATS					
	AAC47438 AAB06961	rck3	PFL0020w	ups8sh	X	no. nd.	nd.	nd.			DBL2-F		08L3.8		~10					
	AAA75399	Dd2	PFD1015c	upsC	8	nd.	c	X			06L2-5		AT\$							
	AAC05730	FCR3		nd.	c	nd.	c	nd.	DS1.1-0	CIDR1-	DBL2-b	CIDR#	ATS							







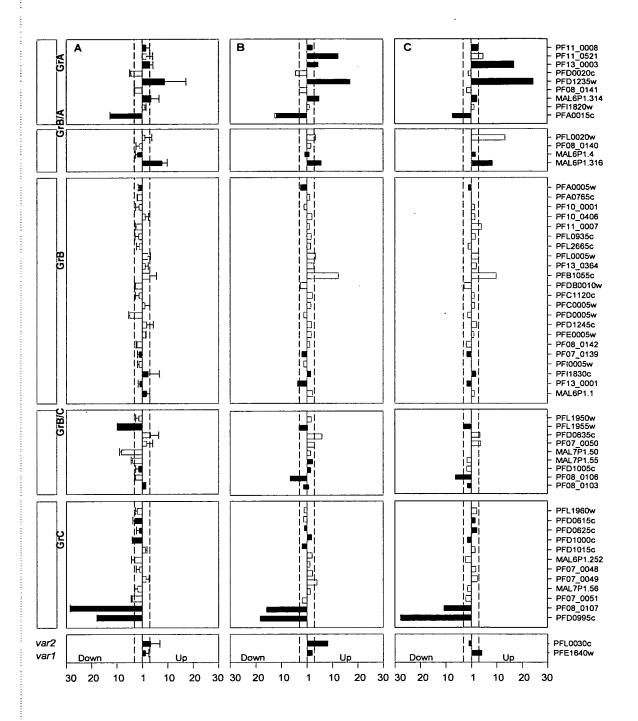


Fig. 13 BEST AVAILABLE COPY

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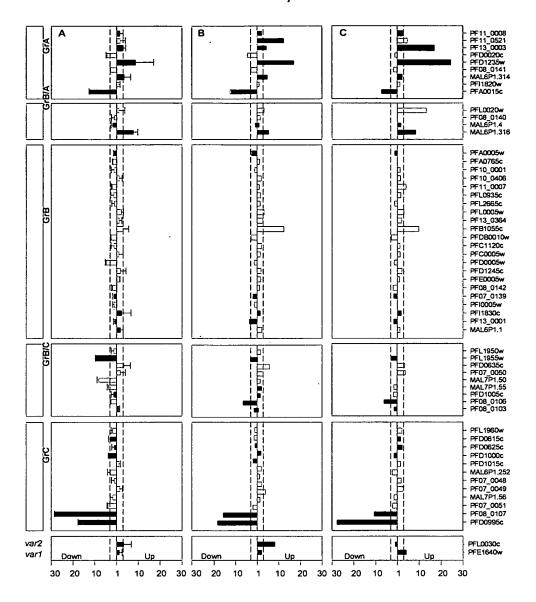


Fig. 14

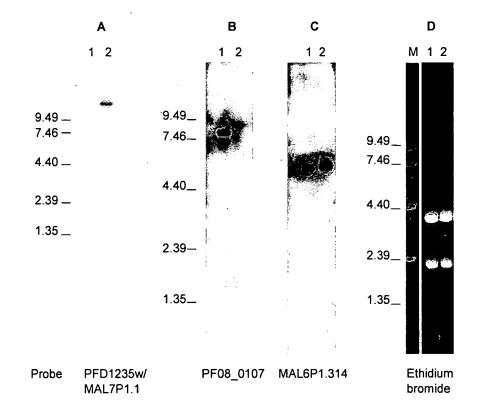


Fig. 15

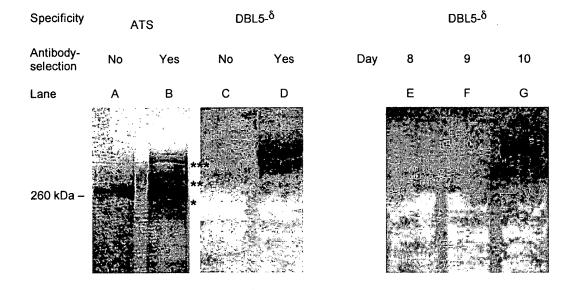
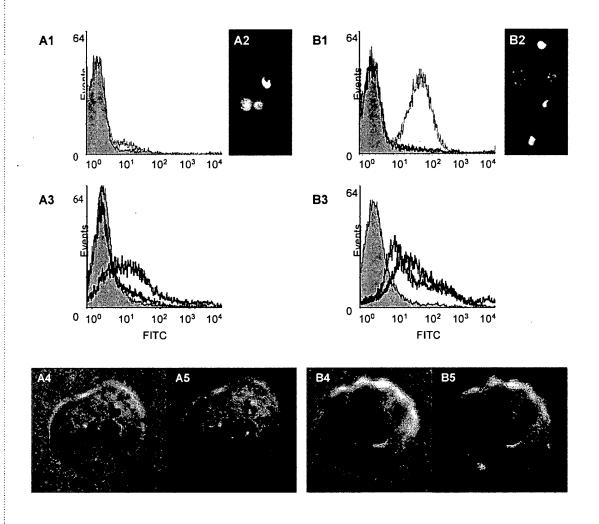


Fig. 16



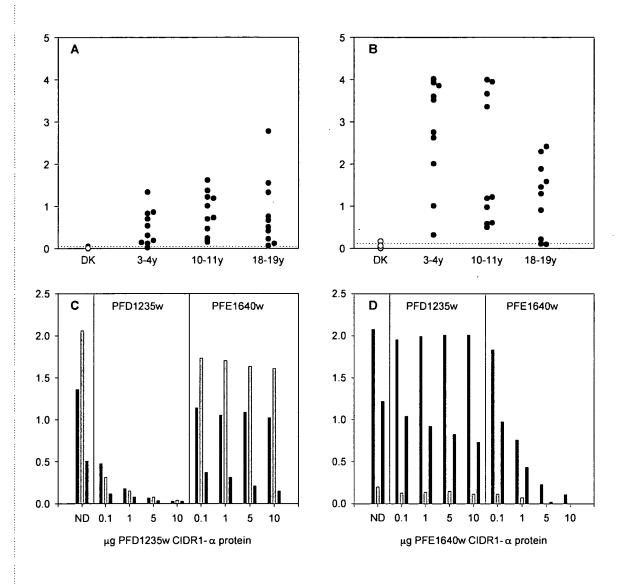
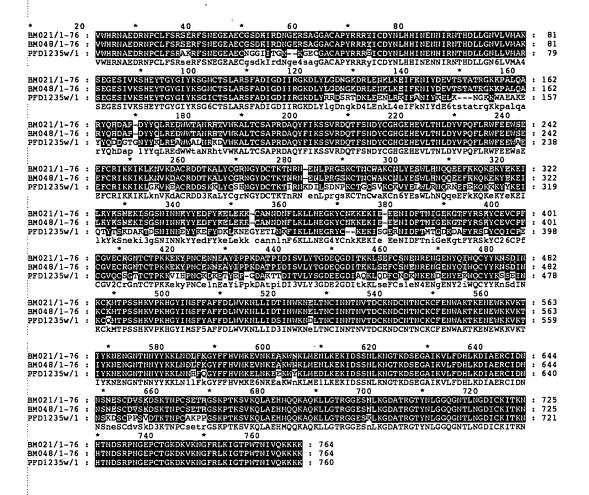
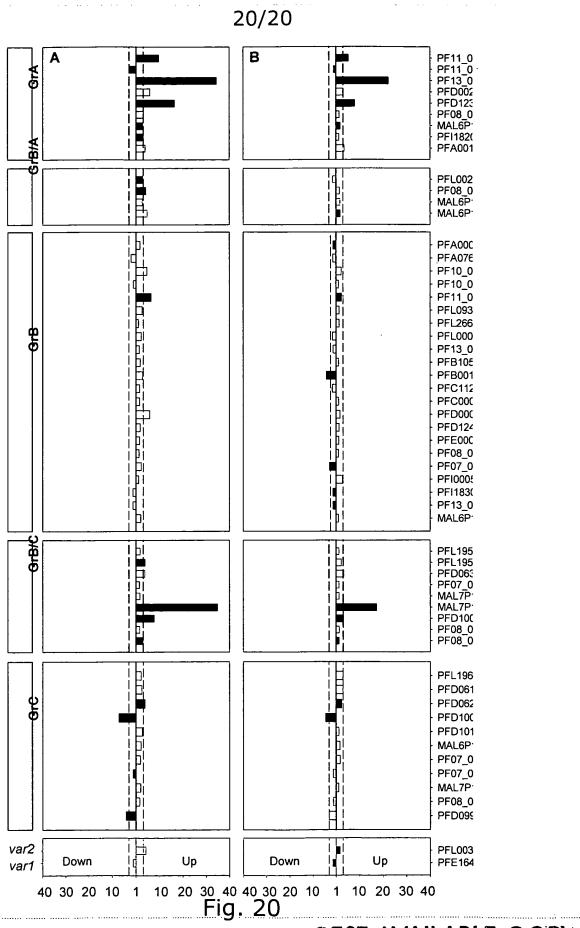


Fig. 18

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